

## ABSTRACT OF THE DISCLOSURE

A system for and method of cellular telephone system monitoring includes a cellular switch which is remotely accessed and placed in a call monitor mode. A  
5 GPS receiver is connected to a mobile telephone via an interface unit. Call performance information (e.g., signal strength, BER and call events) are recorded at the switch and downloaded to a remote computer that includes a display. GPS location information is transmitted by the mobile telephone and received by the remote computer via the switch. The computer receives and stores the recorded call and GPS information and graphically displays this information, along with a map indicating the location of the mobile telephone. Preferably, the call information is first parsed, converted and/or scaled to conform to a standard file format.

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